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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/657,841	09/09/2003	Johannes Baur	P2001,0176	2117
24131	7590	03/25/2005	EXAMINER	
LERNER AND GREENBERG, PA			MULPURI, SAVITRI	
P O BOX 2480			ART UNIT	PAPER NUMBER
HOLLYWOOD, FL 33022-2480			2812	

DATE MAILED: 03/25/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No.	Applicant(s)
	10/657,841	BAUR ET AL.
	Examiner Savitri Mulpuri	Art Unit 2812

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) Responsive to communication(s) filed on 22 December 2004.
 2a) This action is FINAL. 2b) This action is non-final.
 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) Claim(s) 1-26 is/are pending in the application.
 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
 5) Claim(s) _____ is/are allowed.
 6) Claim(s) 1026 is/are rejected.
 7) Claim(s) _____ is/are objected to.
 8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) The specification is objected to by the Examiner.
 10) The drawing(s) filed on _____ is/are: a) accepted or b) objected to by the Examiner.
 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
 Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 a) All b) Some * c) None of:
 1. Certified copies of the priority documents have been received.
 2. Certified copies of the priority documents have been received in Application No. _____.
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|---|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date: _____ |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date: _____ | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

This action is in response to the applicant's communication filed on 6/22/2004.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

- (a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.

Claims 1-25 are rejected under 35 U.S.C. 102(a) as being anticipated by Admitted prior art.

Admitted prior art, at para-0002-0014, teaches a radiation-emitting semiconductor component comprising: epitaxial multilayer structure including active layer for generating radiation in multilayer structure of GaN, electrical contacts connected to said active layer, radiation transmissive window of SiC with first main surface and adjoining multilayer structure and second main surface opposite said first main surface and second main surface (see fig. 9). Admitted prior art further disclose transmissive window has having at least one void selected from the group consisting of a trench recess and a pit recess formed therein for increasing coupling out of radiation from said window, wherein window have side surface and having partial regions perpendicular and orthogonal to first and second main surfaces respectively; and said window has an enveloping basic shape selected from the group consisting of parallelized or cuboid shapes; void has at least one planar side surface enclosing an angle different from 90 degrees with second main surface, wherein void is a trench

recess formed with triangular or trapezoidal cross section tapering towards the first surface. Admitted prior art teaches wafer bonding or epitaxial growth Admitted prior art teaches sawing technique to form trench recess by saw blade "80" having trapezoidal cross section (see US6, 229,160 to Krames fi.2, f i g .7, fig. 10 and col. 4- col.5 for detailed information, which is discloses as admitted prior art. Admitted prior art teaches the window (substrate) has refractive index grater than the refractive index of multilayer structure (see para 0004), wherein multilayer structure is grown by epitaxy on window (substrate) or by bonding (Krames). Admitted prior art teaches the void or trench recess is formed by either sawing or etching (see Krames col.7, lines 40-45).

Admitted prior art, in Krames, fig. 7 the truncated cone shaped cavity is interpreted as void, which is recited trench recess in the window (substrate). Since the instant claims are not limited to void as trench recess formed is not limited to only within the window (substrate) as shown in fig. 1A in instant invention).

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 26 are rejected under 35 U.S.C. 103(a) as being unpatentable over Admitted prior art in combination with Kawai et al (6,239,033).

Kawai teaches forming light emitting devices of GaN on SiC substrate. Kawai teaches forming recess by laser ablation(see col.5, lines 39-46). It would have been

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obvious to one of ordinary skill in the art to form void in SiC substrate in the invention of admitted prior art or recess because art recognized equivalence of forming void or recess by either sawing or laser ablation.

Rejection of claims over Eisert et al was withdrawn in view of the affidavit under C.F.R 1.131, which was filed on 12/22/2004.

Applicant's arguments with respect to claims 1-26 have been considered but are moot in view of the new ground(s) of rejection.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Savitri Mulpuri whose telephone number is 571-272-1677. The examiner can normally be reached on Mon-Fri from 8 a.m. to 4.30 p.m.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael Lebentritt, can be reached on 571-272-1677. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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Savitri Mulpuri
Primary Examiner
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